

INTERNATIONAL SEARCH REPORT

International application No.  
PCT/JP2004/007403

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> Int.Cl. <sup>7</sup> A61K47/10, 45/00, 47/14, 31/05, 31/192, 31/196, 31/235, 31/381, 31/40, 31/403, 31/416, 31/423, 31/53, 31/5415, A61P17/00, 29/00 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) Int.Cl. <sup>7</sup> A61K47/10, 45/00, 47/14, 31/05, 31/192, 31/196, 31/235, 31/381, 31/40, 31/403, 31/416, 31/423, 31/53, 31/5415, A61P17/00, 29/00 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) REGISTRY (STN), CAPLUS (STN), EMBASE (STN), MEDLINE (STN)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 9-169658 A (Pola Chemical Industries Inc.), 30 June, 1997 (30.06.97), Particularly, Par. Nos. [0002] to [0003], [0009] (Family: none)	1-4, 10, 11, 13
Y	JP 2002-104922 A (Beiersdorf AG.), 10 April, 2002 (10.04.02), Particularly, Par. Nos. [0010] to [0028] & EP 1174109 A2 & US 2002/045596 A1	1-4, 10, 11, 13
Y	EP 1146111 A1 (THE PROCTER & GAMBLE CO.), 17 October, 2001 (17.10.01), Particularly, Par. No. [0108] & WO 2001/079409 A1 & US 2003/0083222 A1	1-4, 10, 11, 13
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 24 August, 2004 (24.08.04)		Date of mailing of the international search report 14 September, 2004 (14.09.04)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer
Facsimile No.		Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2002/102376 A1 (PHARMACIA CORP.), 27 December, 2002 (27.12.02), Particularly, page 18, lines 8 to 20 & AU 2002/254609 A1	1-4,10,11,13
Y	PEURTAS-MEJIA M., HILLEBRAND S., STASHENKO E., WINTERHALTER P., in vitro radical scavenging activity of essential oils from Columbian plants and fractions from oregano (Origanum vulgare L.) essential oil, FLAVOUR AND FRAGRANCE JOURNAL, 2002, Vol.17, No.5, pages 380 to 384, all references, particularly, page 384, table 2	1-4,10,11,13
Y	JIMENEZ J., NAVARRO M.C., NOCTILLA M.P., MARTIN A., MARTINEZ A., Thymus zygis Oil: Its Effects on CCL4-Induced Hepatotoxicity and Free Radical Scavenger Activity, Journal of Essential Oil Research, 1993, Vol.5, No.2, pages 153 to 158, all references, particularly, page 157, table 3	1-4,10,11,13
Y	JP 8-283150 A (Kao Corp.), 29 October, 1996 (29.10.96), All references (Family: none)	5-9
P,Y	RUIZ J., PEREZ C., POUPLANA R., QSAR Study of Dual Cyclooxygenase and 5-Lipoxygenase Inhibitors 2,6-di-tert-Butylphenol Deriva tives, Bioorganic & Medicinal Chemistry, September, 2003, Vol.11, No.19, pages 4207 to 4216, all references, particularly, page 4209, table 1; page 4210, table 2	5-9
Y	AZUMA Y., OZASA N., UEDA Y., TAKAGI N., Pharmacological Studies on the Anti- inflammatory Action of Phenolic Compo unds, Journal of Dental Research, 1986, Vol.65, No.1, pages 53 to 56, all references, particularly, page 54, Fig. 1, table 1	5-9
Y	Supervised by Kazutomo IMAHORI, Tamio YAMAKAWA, Seikagaku Jiten 3rd edition, Tokyo Kagaku Dojin, 1998, page 233	5-9
A	JP 2001-106686 A (Pfizer Products Inc.), 17 April, 2001 (17.04.01), Particularly, Par. Nos. [0009] to [0010] & EP 1081144 A2 & US 6239285 B1	5-9

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 8-104636 A (Senju Pharmaceutical Co., Ltd.), 23 April, 1996 (23.04.96), All references (Family: none)	1-11, 13
A	JP 7-304670 A (Senju Pharmaceutical Co., Ltd.), 21 November, 1995 (21.11.95), All references, particularly, Par. Nos. [0038] to [0040], example 3 & EP 672414 A2 & US 5856345 A	1-11, 13
A	WO 2002/007698 A1 (BASF ANTIENGESELLSCHAFT), 31 January, 2002 (31.01.02), Particularly, page 1, lines 14 to 29 & EP 1307179 A2	1-11, 13
A	JP 2002-128701 A (Sankyo Co., Ltd.), 09 May, 2002 (09.05.02), Particularly, Claims; examples 8 to 13 (Family: none)	10-11

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**Box No. II** Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

- 1.
- ☒
- Claims Nos.: 12

because they relate to subject matter not required to be searched by this Authority, namely:

Claim 12 pertains to methods for treatment of the human body by therapy and thus relate to a subject matter which this International Searching Authority is not required, under the provisions of Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the Regulations under the PCT, to search.

- 2.
- ☐
- Claims Nos.:

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

- 3.
- ☐
- Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III** Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.